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(54) Title: MUTANT SODIUM CHANNEL NAv1.7 AND METHODS RELATED THERETO

(57) Abstract: Described are mutant Na,1.7 sodium channel alpha-subunits and nucleic acid sequences encoding such mutants. Further described are methods for characterizing a nucleic acid sequence that encodes a Na,1 sodium channel alpha-subunit, methods for determining a Na,1.7 haplotype, methods for determining a subject's predisposition to a neurologic disorder associated with a sodium channel mutation, and methods of identifying a compound that modulates mutant Na,1.7 sodium channels. Other materials, compositions, articles, devices, and methods relating to mutant Na,1.7 sodium channels are also described herein.



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A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : C07K 14/00; C12N 5/10, 15/00, 15/11, 15/63; C12Q 1/68  US CL : 435/6, 69.1, 320.1, 325; 530/350; 536/23.5; 800/2  According to International Patent Classification (IPC) or to both national classification and IPC						
B. FELDS SEARCHED						
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
	OCUMENTS CONSIDERED TO BE RELEVANT	·				
Category	<ul> <li>Citation of document, with indication, where</li> <li>US 6,673,549 (FURNESS et al.) 06 January 2004 (</li> </ul>	appropriate, of the re	levant passages	Relevant to claim No.		
				1-88		
Furt	her documents are listed in the continuation of Box C.	See pate	nt family annex.			
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INTERNATIONAL SEARCH REPORT

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)					
1. With reinvent	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, the international search was carried out on the basis of:  type of material  a sequence listing  table(s) related to the sequence listing				
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<b>3</b> .	Additional comments:				
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INTERNATIONAL SEARCH REPORT	International application No. PCT/US05/02059
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Continuation of B. FIELDS SEARCHED Item 3: BRS, GENESEQ, PIR, PGPUB search terms: sodium channel, mutation, Navl.7	